

STUDENT ID NO									

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 3, 2015/2016

DCS5018 - COMPUTER SYSTEMS AND APPLICATIONS

(For Diploma Students Only)

1 JUNE 2016 02:30PM - 04:30PM (2 Hours)

INSTRUCTIONS TO STUDENT:

- 1. This question paper consists of 5 pages with 3 sections.
- 2. Answer ALL questions.
- 3. For section A and B, shade your answer on the OMR sheet provided.
- 4. For section C, write your answers in the answer booklet provided.

Section A: Multiple Choice Questions (Total: 20 Marks)
Instruction: Please mark your answers on the OMR sheet provided.

1.	A con	nputer system's hardware		
	A.	consists of the physical component	ts of the	computer
	B.	is limited to three components		
		may include a keyboard and monit	tor, but	not speakers
	D.	includes only output components		
2.		handle gigantic processing job	s for la	rge corporations or agencies.
		Servers	C.	Mainframes
	В.	Minicomputers	D.	Midrange servers
3	Softv	vare that enables you to display and	interac	t with text and other media on the web
۶.		veb		
		client	C.	agent
	В.	server	D.	browser
4	Whic	th of the following are a social netw	orking	site?
т.		Facebook	iii.	LinkedIn
		YouTube	iv.	iTunes
		i, ii and iii	C.	i, iii and iv
		ii and iii		i, ii, iii and iv
_			thich the	e vendor hosts the software online over
5.	the I	nternet without installing it on com	nuter	o vondor nosis the software same over
	Δ	Proprietary as a Service	C.	Software as a Service
	B.	Open Source as a Service	D.	Webware as a Service
_				
6.	-	are the example of video-edit Adobe Premiere Pro	iii mg son	iMovie
		Apple's Final Cut Pro	iv.	iMovie Windows Movie Maker
		i and iii		ii and iv
		i, ii and iv		i, ii, iii and iv
		•		
7.			h you c	hoose commands from menus displayed
		he screen.	C	command-driven
		menu-driven		graphical user interface (GUI)
		instruction-driven		
8	. Wir	dows 8 is designed for a variety of	devices	s, including laptops, phones, and tablets.
		ow are the ways to accomplish task		ndows 8 EXCEPT
	A.	•	C. D.	•
	В.	using a microphone	D.	using a mouse
9	. Hy	perthreading		
	A.		the CPU	can process each second
	В.			ed instructions or data that the central
	_	processing unit accesses the mo	st 	le ale ale ante accoming it at a higher anged
	C.			s clock rate, running it at a higher speed
	ъ	than the manufacturer recomme		sing by enabling a new set of instructions
	D.	to start before the previous set is		
		to start before the previous set is	אונפנונגנג ט	

10	for high-definition TVs, Blu-ra	ay play	ers, or gaming consoles.						
A.	HDMI ports	C.							
В.	DVI ports	D.	Video card						
11 W/hi/	ch of the following is NOT on adver-	.ta.ca. a:	ffihan antia asklat						
A.	ch of the following is NOT an advan Faster data transmission.	nage of	i fiber-optic cable?						
В.	Capability of carrying significantly	y more	signais.						
C.	Less cost than twisted-pair or coax								
D.	Better security for signals during t	ransmi	ssion.						
12. The	statement below refers to	0)							
			nation, Internet access, and the use of						
			, providing the services necessary for						
	the computers on the	e netwo	ork to communicate."						
Ā.	information management system (ISM)							
B.	network operating system (NOS)	. ,							
C.	digital subscriber line (DSL)								
D.	service set identifier (SSID)								
13. All c	of the following are components ava-	ilahle i	n smartphone EXCEPT						
Α.		C.	central processing unit (CPU)						
В.		D.	camera module						
	1 7	ν.	camera module						
14. E-te									
A.		ows on	ly limited use of material that has been						
75	legally purchased								
В.			ail along the Internet to its destination						
C.	technology that enables short text	messa	ges to be sent over mobile networks						
D.	digital textual information that ca	ın be s	tored, manipulated, and transmitted by						
	electronic devices		-						
15. Why	are biometric devices gaining popu	larity a	as s security precautions?						
Α.	They are a secure method of ident								
в.	They are less expensive than other								
C.	They are unaffected by physical c								
D.	All of the above.		or recinigo of barego.						
16 An e	example of phishing is								
A.	setting up a fake Wi-Fi hot spot								
В.		c::	-1 -: 4 4 C.1						
Б. С.	sending bulk e-mail that asks for the		al ald under a false cause						
D.	setting up a rake banking web site	e that a	sks users for confidential information						
D.	from that company about their sec	ny's en	aployee in order to gather information						
		•	•						
17.	use to perform the task.	task int	o a series of commands that a computer						
	Diagramming	C	Duo amora antin a						
A. B.		C.	Programming Debugging						
ъ,	Anaryzing	D.	Debugging						

DCS5018	COMPUTER SYST	COMPUTER SYSTEM AND APPLICATIONS				
capal	th of the following would NO bilities? Fortran Java Server Pages		iii. Activ	l websites we Server Page (hypertext pro	es	
A. B. 19. Refe	ii and iv ii, iii, and iv r to below statement; this databas	C. D. e type is	ionly			
	"A database type that organiz	es data in grouping		tables based of	on logical	
A. B.	relational flat-file	C. D.	multidime object-ori			
	keeps track of everydate office support system decision support system	ay busine C. D.	transactio	s. n-processing ent informati		
	B: True / False (Total: 40 Marlion: Please mark A for <u>True</u> state ovided.		and B for <u>I</u>	<u> alse</u> stateme	nts in the OMR	
21. Inpi	at devices hold all programs and d	lata that	the comput	er uses.		
22. Liqu ima	uid Crystal Display monitor is sar ges.	ıdwiched	l between t	wo transparer	nt layers to form	
23. A k	ilobyte is exactly 1024 bytes.					
24. Exte	ernal hard drives reside in the uni	t and ho	lds all pern	nanently store	ed programs and	
25. A w	veb server is a database that index	es Web	pages.			
	earning media is multimedia that is to wait for the entire file to dow					

- 27. A search engine is a set of programs that searches for keywords and returns a list of the sites on which those keywords are found.
- 28. The protocol identifies the site's host, the location that maintains the computers that store the website files.
- 29. All education software is free.
- 30. Spreadsheet software lets you store and organize data into fields, records, and tables.
- 31. A free software license, the GNU General Public License allows and grants the recipients the right to modify and redistribute the software.
- 32. A full installation copies all the most commonly used files to your hard drive.
- 33. Apple's OS X and Linux OS are examples of operating system software.
- 34. Utility program manages the computer's hardware and peripheral devices.
- 35. Read-only memory is a type of firmware used during the booting process.

Continued

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- 36. Windows organizes your computer in a hierarchical directory structure composed of drives, libraries, folders, subfolders, and files.
- 37. External drive bays can be seen and accessed from outside the system unit.
- 38. The processing cycle of control unit consists of three phases.
- 39. A CPU's processing power is determined by clock speed, number of cores and amount of cache memory.
- 40. Dolby Digital 7.1 requires a total of seven speakers.
- 41. A computer network is simply two or more computers that are connected via software and hardware so that they can communicate with each other.
- 42. Twisted-pair consists of a single copper wire surrounded by layers of plastic.
- 43. The three main types of unshielded twisted-pair (UTP) cable are Cat 5E, Cat 6 and Cat 6a.
- 44. An integrated network adapter is referred to as a network navigation device.
- 45. The operating system of a cell phone is stored in random access memory.
- 46. Cellular phone is a telephone that operate over a mobile network.
- 47. A main difference between the tablet and the smartphone is the screen size.
- 48. The process of updating your data is called synchronizing, or syncing.
- 49. Cybercriminal is any criminal action perpetrated primarily through the use of a computer.
- 50. Polymorphic viruses temporarily erase their code from the files where they reside and hide in the active memory of the computer.
- 51. A biometric authentication device is a device that reads a unique personal characteristic such as a fingerprint or the iris pattern in your eye and converts it to a digital code.
- 52. Grey-hat hackers break into systems to destroy information or for illegal gain.
- 53. An information system includes data, people, hardware, and software that help in planning and decision making.
- 54. Decision points force the program to travel down one or more branch of the algorithm at one time.
- 55. Computer programming languages use special words and strict rules so that programmers can control the CPU without having to know all its hardware details.
- 56. Android software development kit (SDK) is required to build apps targeting Android smartphones and tablets.
- 57. Data consistency means that the data is accurate and reliable.
- 58. Data mapping helps to ensure data integrity by maintaining information in only one place.
- 59. The three major types of databases currently in use are relational, object-oriented, and multidimensional.
- 60. Office Support System (OSS) is designed to improve communications and assist employees in accomplishing tasks.

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Section C: Structured Questions (Total: 40 Marks)

Instruction: Please write all your answers in the Answer Booklet provided.

OUESTION 1

- a) In terms of computing, ergonomics refers to how you set up your computer and other equipment to minimize your risk of injury or discomfort. List FIVE guidelines a worker should know to avoid injuries when working at their computer. (5 Marks)
- b) "KUALA LUMPUR: Malaysia has emerged as one of the largest e-commerce markets in South-East Asia alongside Singapore and Indonesia, according to eBay Inc.'s report, Commerce 3.0: Enabling Asian Small and Medium Enterprises (SMEs)." (Source: Unknown)

As e-commerce booms, so does the increase number of frauds and criminal related cases. List FIVE steps that you can take to ensure a safer online shopping or transaction. (5 Marks)

[Total: 10 Marks]

QUESTION 2

a) List FIVE types of business-related software used by large businesses. (5 Marks)

b) A filename is a name used to uniquely identify a computer file stored in a file system. What are the rules that could serve as a guideline in structuring file name? Based on the guideline, give an example of file name. (5 Marks)

[Total: 10 Marks]

QUESTION 3

a) Differentiate between memory and storage.

(2 Marks)

b) Explain the TWO categories of memory. Give an example of each category.

(3 Marks)

c) Briefly define network architecture. List **FOUR** characteristics of network architecture. (5 marks)

[Total: 10 Marks]

QUESTION 4

a) Voice over Internet Protocol (VoIP) is a form of voice-based Internet communication that turns a standard Internet connection into a means to place phone calls. List TWO advantages and TWO disadvantages of VoIP. Give an example of VoIP provider.

(5 Marks)

b) Differentiate between spam and spim. Provide THREE ways to help avoid spam.

(5 Marks)

[Total: 10 Marks]